Model Exam 1

1 Choose the correct answer:

1. The small bodies of water that flow into a bigger river are called ……………… .
   a. estuaries b. tributaries c. watersheds d. bays
2. Plastic spoons are made from ……………… .
   a. oil b. tress c. animals d. paper
3. ……………… are used to remove harmful materials from polluted water.
   a. Dams b. Turbines c. Water filters d. Magnets
4. ……………… is the force that slows the dropping of a skydiver.
   a. Gravity b. Air resistance c. Magnetism d. Push

2 Put (✓) or (✗):

1. Nicolaus Copernicus states that Earth is the center of the solar system. ( )
2. Any pollution that happens in small tributaries affects downstream areas. ( )
3. A book on a table isn't affected by gravity. ( )
4. Wadi Al-Hitan Protectorate is an example of harvesting of resources. ( )

3 Answer the following questions:

1. Write the scientific term:
   It is a celestial body that orbits the Earth. (………………)
2. Give a reason for:
   Wastewater engineers check the quality of filtered water.
   ………………………………………………

Model Exam 2

1 Choose the correct answer:

1. The gravitational force between two objects depends on the ....
   a. mass and color b. distance and temperature
   c. shape and size d. mass and distance
2. When you throw up a ball in the air, its .... changes due to the Earth's gravity.
   a. mass b. color c. volume d. direction
3. All the following cause water pollution, except for the existence of .... on a river.
   a. a farm b. a factory c. a dam d. a trash dump
4. When people use natural resources wisely to keep them available in the future, this is called ....
   a. preservation b. overpopulation
   c. over-consumption d. sustainability

2 Put (✓) or (✗):

1. Salts can't be removed by simple water filters. (   )
2. The moon revolves around the Earth due to the gravity of the Sun. (   )
3. Magnetism is a visible force because we can see its effect. (   )
4. Air resistance always works against gravity. (   )

3 Answer the following questions:

1. Write the scientific term:
   It is an area of land where water from different sources flow towards a common location. (....................)
2. What happens if:
   The mass of the moon is doubled?
   ....

Model Exam 3

1 Choose the correct answer:

1. .... isn't an item used to make a model of a water filter.

   a. Cotton b. Sand c. Charcoal d. Oil

2. The gravity of .... affects the ocean tides on the Earth.

   a. Mars b. the moon c. Jupiter d. the Sun

3. A static object needs .... to move.

   a. time b. a distance c. a force d. mass

4. In the solar system, planets stay in their orbits due to the gravity of ....

   a. the moon b. the Sun c. Mars d. the Earth

2 Put (✓) or (✗):

1. The water of a small stream flows directly into an ocean. (   )
2. Unequal distribution of resources leads to the unsustainability of resources. (   )
3. You can exert a strong force to push a toy car. (   )
4. You can see the effect of gravity when you throw a coin in the air. (   )

3 Answer the following questions:

1. Write the scientific term:

   It is a pull or push that is applied to an object. (....................)

2. Give a reason for:

   Astronauts float into space.

   ....

Model Exam 4

1 Choose the correct answer:

1. .... is a place where the river starts.
   a. An estuary b. An upstream
   c. An ocean d. A downstream
2. .... of natural resources means restricting access to or using these resources.
   a. Restoration b. Pollution c. Preservation d. Sustainability
3. In a water filter, ... is the first item through which waste water passes.
   a. sand b. charcoal c. cotton d. paper
4. Gravity keeps the moon in a fixed orbit around ....
   a. the Sun b. the Earth
   c. itself d. another moon

2 Put (✓) or (✗):

1. Iron and copper are attracted to magnets. (   )
2. Gravity always attracts and never repels. (   )
3. When you build a dam on a river, the water level of the river will not change. (   )
4. Clothes can be made from cotton or the wool of sheep. (   )

3 Answer the following questions:

1. Write the scientific term:
   It is the process of removing harmful materials from water by filtration.
   (..............................)
2. What happens if:
   There is no gravity between the Earth and the moon?
   ....

Model Exam 5

1 Choose the correct answer:

1. The force of .... is both attraction and repulsion.
   a. gravity b. magnetism c. wind d. dragging
2. Friction force .... the movement of objects.
   a. slows down b. increases c. speeds up d. doesn't affect
3. The water of a small creek flows into ....
   a. an ocean b. a bigger river
   c. a smaller stream d. a sea
4. Deforestation occurs due to ....
   a. pollution b. cutting down trees
   c. using fossil fuel d. sustainability

2 Put (✓) or (✗):

1. Fresh water is a limited nonrenewable natural resource. ( )
2. Gravity pushes the objects away from the center of the Earth. ( )
3. A magnet attracts some objects due to a force called magnetism. ( )
4. If the mass of the moon decreases, its gravity force will increase. ( )

3 Answer the following questions:

1. Write the scientific term:
   It is the water that has already been used in homes and different industries. (....................)
2. Give a reason for:
   Overfishing has a bad impact on the marine community.
   ....

Answers

Model Exam 1

1
1. b 2. a 3. c 4. b

2
1. ✗ 2. ✓ 3. ✗ 4. ✗

3
1. The moon
2. To make sure that filtered water is safe to be used.

Model Exam 2

1
1. d 2. d 3. c 4. d

2
1. ✓ 2. ✗ 3. ✗ 4. ✓

3
1. Watershed
2. The gravity of the moon would increase, so the moon would be pulled closer to Earth and may crash into it.

Model Exam 3

1
1. d 2. b 3. c 4. b

2
1. ✗ 2. ✓ 3. ✗ 4. ✓

3
1. Force
2. Because there is no gravity in space.

Model Exam 4

1
1. b 2. c 3. a 4. b

2
1. ✗ 2. ✓ 3. ✗ 4. ✓

3
1. Recycling water
2. The moon may float off into space.

Model Exam 5

1
1. b 2. a 3. b 4. b

2
1. ✗ 2. ✗ 3. ✓ 4. ✗

3
1. Wastewater
2. Because it causes fish in oceans to become scarce and fishing opportunities to decrease.

Model (1)



1 Choose the correct answer:

1. Which of the following will not pollute the water of a tributary?
   a) Litter of a nearby trash dump.
   b) Building a dam across the river.
   c) Waste of a nearby factory.
   d) Chemical fertilizers of a nearby farm.

2. All of the following are from the properties of Earth, except ....
   a) it pushes objects upwards
   b) it affects the moon
   c) it pushes objects downwards
   d) it is a type of attraction force

3. When the mass of the moon is doubled, ...
   a) its gravity increases
   b) it will be attracted more to the Earth
   c) tides are increased
   d) All the previous answers

4. A watershed is a region where all of the water in that area ....
   a) is in the same country
   b) has the same soil
   c) drives the wind speed and direction
   d) drains into a common body of water

2 Complete the following sentences from the words between brackets:

1. Building .... across a tributary can change the amount of water in it. (factories – dams)
2. When a cup slips down from your hand, ... pulls it to the ground. (gravity – friction)
3. Planets of our solar system have different masses, so they have .... gravitational force(s). (different – the same)
4. When a skydiver opens its parachute, he is attracted to .... (the sky – the center of the Earth)

3 (A) Give a reason for:

- We should turn off the water during washing dishes.
  - ....

(B) What is the role of the water filter?

- ....

Model (2)



1 Choose the correct answer:

1. The correct flowing of water bodies that are connected with others is ....

   a) bigger rivers → tributaries → oceans

   b) tributaries → bigger rivers → oceans

   c) oceans → tributaries → bigger rivers

   d) bigger rivers → oceans → tributaries

2. The gravity of Earth is affected by all of the following, expect ....

   a) the mass of the aeroplane

   b) the distance between the aeroplane and the Earth's surface

   c) the type of the aeroplane

   d) the air resistance

3. Which example doesn't represent the direction of gravity?

   a) A pen falls down to the ground from the table.

   b) A parachutist lands on the top of a mountain.

   c) A rocket moves up towards the space.

   d) An orange falls from the tree.

4. Which of these practices can be adapted to save the environment?

   a) Reduce the use of single-use plastic bags   b) Recycle single-use bags

   c) Reduce the use of paper bags   d) All the previous answers

2 Complete the following sentences from the words between brackets:

1. You must .... the time of taking your shower to conserve water. (decrease – increase)
2. We can't see gravity, but we can feel its .... (heat – effect)
3. Astronauts float off into space, due to the absence of .... (gravity – air resistance)
4. Most plastic is made from .... products. (oil – clay)

3 (A) Write the scientific term:

- Small water bodies such as creeks or streams that flow into bigger rivers. (..............................)

(B) Give a reason for:

- The Earth has more gravity than the moon.

  - ....

Model (3)

15 Marks

1 Complete the following sentences from the words between brackets:

1. A tributary usually ends by the flowing of its water into a bigger ....

   a) ocean b) sea c) river d) lake

2. Which of the following has the least gravity?

   a) The Sun. b) The moon. c) The Earth. d) A magnet.

3. The gravity of the moon is one sixth the Earth's gravity. This means that ....

   a) The moon has more mass than the Earth.
   b) The moon has less mass than the Earth.
   c) The Earth and the moon have the same gravity.
   d) The Earth has less mass than the moon.

4. When a ball is thrown into the air, it moves back down, so its .... changes due to the effect of ....

   a) gravity - direction b) direction - gravity c) mass - gravity d) force - mass

2 Put (✓) or (✗):

1. Gravitational force exists between objects in contact only. ( )
2. A watershed helps scientists understand how the water bodies in an area interact with one another. ( )
3. Downstream is the place where a river ends. ( )
4. In high dam, water is used to generate electricity. ( )

3 (A) Give a reason for:

- Planets revolve around the Sun in fixed orbits.

  - ....

(B) What happens when:

- Cutting down too many trees of forests.

  - ....

Model (4)

15 Marks

1 Choose the correct answer:

1. Among the factors that help us to make resources sustainable is ....

   a) overpopulation
   b) overuse of resources
   c) damage of resources
   d) pollution control

2. Magnetism is a kind of .... force.

   a) attraction only
   b) invisible
   c) visible
   d) friction

3. The planets revolve around the Sun in .... orbits.

   a) elliptical
   b) circular
   c) rectangular
   d) square

4. All of the following are ways a person could apply to conserve natural resources except ....

   a) recycling waste materials like plastic, paper, and aluminum
   b) limiting water use during showering, and brushing teeth
   c) deforestation
   d) using rechargeable batteries

2 Complete the following sentences from the words between brackets:

1. A farm that uses .... near a tributary may cause water pollution. (chemical fertilizers – organic fertilizers)
2. Small planets have .... gravity than big planets. (bigger – smaller)
3. .... is the force that attracts metals. (Gravity – Magnetism)
4. Gravity is always directed .... to the ground. (upwards – downwards)

3 (A) Give a reason for:

- Countries prevent using or developing natural resources in some protected areas of land.
  - ....

(B) Write the scientific term:

- It means using resources in a way that does not negatively affect the environment. (...............................)

Model (5)

15 Marks

1 Choose the correct answer:

1. Preventing the development of Ras Mohammed Protectorate is an example of ....

   a) preservation b) pollution c) sustainability d) consumption

2. All the following materials can be used to filter wastewater in simple water filter, except ....

   a) cotton b) wood c) charcoal d) sand

3. .... are the factors that affect gravity.

   a) Mass and distance
   b) Mass and volume
   c) Distance and volume
   d) Volume and sound

4. Which of the following statements is correct about gravity?

   a) Gravity is a pushing force only.
   b) Only Earth has gravity.
   c) Gravity is an invisible force.
   d) Gravity increases between light and small objects.

2 Complete the following sentences:

1. Clothes can be made from .... products or .... products.
2. Heavy objects have .... gravity than light objects.
3. Gravity is a pulling force that occurs between objects that have ....
4. Water filters are used to remove .... materials from polluted water.

3 (A) Give a reason for:

- The moon doesn't float off into space.

  - ....

(B) What happens when:

- ....
- ....

Model (1)


15 Marks

1 Choose the correct answer:

1. Which of the following will not pollute the water of a tributary?
   a) Litter of a nearby trash dump.
   b) Building a dam across the river.
   c) Waste of a nearby factory.
   d) Chemical fertilizers of a nearby farm.
2. All of the following are from the properties of Earth, except ....
   a) it pushes objects upwards
   b) it affects the moon
   c) it pushes objects downwards
   d) it is a type of attraction force
3. When the mass of the moon is doubled, ...
   a) its gravity increases
   b) it will be attracted more to the Earth
   c) tides are increased
   d) All the previous answers
4. A watershed is a region where all of the water in that area ....
   a) is in the same country
   b) has the same soil
   c) drives the wind speed and direction
   d) drains into a common body of water

2 Complete the following sentences from the words between brackets:

1. Building .... across a tributary can change the amount of water in it. (factories – dams)
2. When a cup slips down from your hand, ... pulls it to the ground. (gravity – friction)
3. Planets of our solar system have different masses, so they have .... gravitational force(s). (different – the same)
4. When a skydiver opens its parachute, he is attracted to .... (the sky – the center of the Earth)

3 (A) Give a reason for:

- We should turn off the water during washing dishes.

- To conserve water.

(B) What is the role of the water filter?

It is used to remove harmful materials from polluted water to get filtered water that humans can use for many purposes.

Model (2)



1 Choose the correct answer:

1. The correct flowing of water bodies that are connected with others is ....
   a) bigger rivers → tributaries → oceans
   b) tributaries → bigger rivers → oceans
   c) oceans → tributaries → bigger rivers
   d) bigger rivers → oceans → tributaries
2. The gravity of Earth is affected by all of the following, expect ....
   a) the mass of the aeroplane
   b) the distance between the aeroplane and the Earth's surface
   c) the type of the aeroplane
   d) the air resistance
3. Which example doesn't represent the direction of gravity?
   a) A pen falls down to the ground from the table.
   b) A parachutist lands on the top of a mountain.
   c) A rocket moves up towards the space.
   d) An orange falls from the tree.
4. Which of these practices can be adapted to save the environment?
   a) Reduce the use of single-use plastic bags
   b) Recycle single-use bags
   c) Reduce the use of paper bags
   d) All the previous answers

2 Complete the following sentences from the words between brackets:

1. You must .... the time of taking your shower to conserve water. (decrease – increase)
2. We can't see gravity, but we can feel its .... (heat – effect)
3. Astronauts float off into space, due to the absence of .... (gravity – air resistance)
4. Most plastic is made from .... products. (oil – clay)

3 (A) Write the scientific term:

- Small water bodies such as creeks or streams that flow into bigger rivers. (Tributaries)

(B) Give a reason for:

- The Earth has more gravity than the moon.

Because the Earth has more mass than the moon.

Model (3)

15 Marks

1 Complete the following sentences from the words between brackets:

1. A tributary usually ends by the flowing of its water into a bigger ....

   a) ocean b) sea c) river d) lake

2. Which of the following has the least gravity?

   a) The Sun. b) The moon. c) The Earth. d) A magnet.

3. The gravity of the moon is one sixth the Earth's gravity. This means that ....

   a) The moon has more mass than the Earth.
   b) The moon has less mass than the Earth.
   c) The Earth and the moon have the same gravity.
   d) The Earth has less mass than the moon.

4. When a ball is thrown into the air, it moves back down, so its .... changes due to the effect of ....

   a) gravity - direction b) direction - gravity c) mass - gravity d) force - mass

2 Put (✓) or (✗):

1. Gravitational force exists between objects in contact only. (✗)
2. A watershed helps scientists understand how the water bodies in an area interact with one another. (✓)
3. Downstream is the place where a river ends. (✓)
4. In high dam, water is used to generate electricity. (✓)

3 (A) Give a reason for:

- Planets revolve around the Sun in fixed orbits.

Because it has the largest mass and gravity.

(B) What happens when:

- Cutting down too many trees of forests.

Deforestation and soil erosion occur.

Model (4)

15 Marks

1 Choose the correct answer:

1. Among the factors that help us to make resources sustainable is ....

   a) overpopulation
   b) overuse of resources
   c) damage of resources
   d) pollution control

2. Magnetism is a kind of .... force.

   a) attraction only
   b) invisible
   c) visible
   d) friction

3. The planets revolve around the Sun in .... orbits.

   a) elliptical
   b) circular
   c) rectangular
   d) square

4. All of the following are ways a person could apply to conserve natural resources except ....

   a) recycling waste materials like plastic, paper, and aluminum
   b) limiting water use during showering, and brushing teeth
   c) deforestation
   d) using rechargeable batteries

2 Complete the following sentences from the words between brackets:

1. A farm that uses .... near a tributary may cause water pollution. (chemical fertilizers – organic fertilizers)
2. Small planets have .... gravity than big planets. (bigger – smaller)
3. .... is the force that attracts metals. (Gravity – Magnetism)
4. Gravity is always directed .... to the ground. (upwards – downwards)

3 (A) Give a reason for:

- Countries prevent using or developing natural resources in some protected areas of land.

  To preserve natural resources.

(B) Write the scientific term:

- It means using resources in a way that does not negatively affect the environment. (Sustainability)

Model (5)

15 Marks

1 Choose the correct answer:

1. Preventing the development of Ras Mohammed Protectorate is an example of ....

   a) preservation b) pollution c) sustainability d) consumption

2. All the following materials can be used to filter wastewater in simple water filter, except ....

   a) cotton b) wood c) charcoal d) sand

3. .... are the factors that affect gravity.

   a) Mass and distance b) Mass and volume

   c) Distance and volume d) Volume and sound

4. Which of the following statements is correct about gravity?

   a) Gravity is a pushing force only.

   b) Only Earth has gravity.

   c) Gravity is an invisible force.

   d) Gravity increases between light and small objects.

2 Complete the following sentences:

1. Clothes can be made from plant products or animal products.
2. Heavy objects have more gravity than light objects.
3. Gravity is a pulling force that occurs between objects that have mass.
4. Water filters are used to remove harmful materials from polluted water.

3 (A) Give a reason for:

- The moon doesn't float off into space.

Due to the effect of the Earth's gravity on it.

(B) What happens when:

- A trash dump is established near a tributary that is connected with a river.

The water in tributary carries the litter into other water bodies connected to it causing water pollution.



March Questions Bank



CONCEPT 3.2

Question 01 — Choose the correct answer

1. The area of land where all the water flows in one direction to a common location as ocean is called ....
   - a. tributary
   - b. estuary
   - c. wetland
   - d. watershed

   (Qalyoubia 2023)

2. Waste water engineers work in Egypt in................
   - a. Ras Mohammed protector
   - b. Lake Bardwell
   - c. Bahr Al Baqar plant
   - d. electrical power plant

   (school book)

3. Prevent developing of Ras Mohamed Protectorate is considered as an example of ....
   - a. preservation
   - b. pollution
   - c. sustainability
   - d. consumption

   (Cairo 2023)

4. All the following materials can be used to filter wastewater in simple water filter, except ....
   - a. cotton
   - b. wood
   - c. charcoal
   - d. sand

   (Cairo 2023)

5. .... process is used to get filtered water from polluted water.
   - a. Recycling
   - b. Sustainability
   - c. Preservation
   - d. Conservation

   (El-Gharbia 2023)

6. Water cycle is considered as an example of ....
   - a. recycling water
   - b. preservation of water
   - c. overusing water
   - d. conservation of water

   (Cairo 2023)

7. Water filters are used to remove .... materials from polluted water.
   - a. harmful
   - b. solar system
   - c. day and night
   - d. electricity

   (Cairo 2023)

8. .... of resources, requires managing its usage methods.
   - a. Depletion
   - b. Sustainability
   - c. Renewability
   - d. Scarcity

9. Pollution is one of the problems to achieve (affect) .... of resources.
   - (a) preservation
   - (b) sustainability
   - (c) restoration
   - (d) renewability

(school book)

10. .... is an evidence of limiting the possibility of using and accessing resources.
    - (a) Lake Qaroun
    - (b) Natural protectorates
    - (c) Well water
    - (d) Biome systems

(school book)

11. A protectorate is an example of ....
    - (a) sustainability of natural resources
    - (b) depletion of natural resources
    - (c) the quality of natural resources
    - (d) preservation of natural resources

(school book)

12. Wadi Al-Hitan protectorate is one procedure of.................
    - (a) sustainability of natural resources
    - (b) depletion of natural resources
    - (c) the quality of natural resources.
    - (d) preservation of natural resources.

(school book)

13. Most of water on Earth is ....
    - (a) a mixture of fresh and salt water that is found in estuaries.
    - (b) fresh water that is found underground.
    - (c) salt water that is found in oceans and seas
    - (d) fresh water that is found in lakes.

(Cairo 2023)

14. All the following reasons cause water pollution in a river, <u>except</u> ....
    - (a) litter of a nearby trash dump.
    - (b) waste of a nearby factory.
    - (c) chemical fertilizers of a nearby farm.
    - (d) building a dam across the river.

(school book)

Question 02 put (true) or (false)

1. Upstream is the place where a river starts. ( )
2. Adding some of mud to a clear water can pollute it. ( )
3. Water is considered a non-renewable natural resource. ( )
4. Dams can be used to filter polluted water roused again. ( )
5. Watershed it is an area where water from one source only flows towards. ( )
6. Wastewater engineers decide where to build water treatment plants. ( )
7. Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ( )
8. When fresh water is polluted, it becomes drinkable. ( )
9. Recycling of polluted water means removing useful materials from water ( )
10. The water of tributaries flows directly into seas and oceans. ( )
11. Cotton can be used as a filter to remove some waste materials from water. ( )
12. Placing cows in many small grass areas is considered as sustainable situation. ( )
13. Some human activities are responsible for water pollution. ( )
14. Building factories is from human strategies to control and conserve fresh water. ( )
15. Cotton can be used as a filter to remove waste from water ( )

Question 03 Complete the following sentences

1. When the rate of rainfall decreases, the level of water in rivers will .... causing ....
2. Clothes can be made from .... products or .... products.
3. Cotton, ... and .... can be used in making a simple water filter.

4. Wastewater engineers can test the quality of .... by checking for the amount of .... in water.
5. Water treatment plants recycle the .... by removing harmful materials from it to reuse it again.
6. We must take a quick shower to conserve ....
7. Building a .... cross a tributary can change the amount of water in it.
8. Water treatment plants recycle the .... by removing harmful materials from it to reuse the water again.
9. To conserve water, we can .... the time of washing our hands.
10. If we use fossil fuels wisely without negatively affecting their amount in the future, this is called ....

Question 04 write scientific term for each of the following

1. It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body. ( )
2. The action of control reaching of humans to the natural resources or using them. ( )
3. It means using resources in a way that does not negatively affect the future supply of these resources. ( )
4. It is the water that has already been used in homes and different industries. ( )
5. Scientists who work in water treatment plants. ( )
6. They are stations which recycle wastewater by removing harmful materials from wastewater to reuse it. ( )
7. They are small water bodies such as small creeks or streams that flows into bigger rivers ( )
8. A phenomenon that happens due to the increase of the level of water in rivers and streams. ( )
9. A phenomenon that happens due to the decrease of the level of water in rivers and streams ( )
10. A type of pollution that occurs as a result of throwing waste in rivers and seas. ( )

Question 06 give reason

1. Farms near tributaries may cause water pollution

....

2. We should turn off water during washing dishes.

....

3. Countries prevent using or developing natural resource in some protected areas of land.

....

4. Cutting down too many trees of forests leads to soil erosion.

....

5. Scientists recycle fresh waste water to get filtered water again.

....

Question 07 what happens

1. You mix clear water with small amount of mud.

....

2. Fish are eaten more than they are replaced in the ocean.

....

3. The rate of rain fall increases on a river.

....

4. Polluted water is passed through a water filter.

....

5. A trash dump is established near a tributary that is connected with river

....

CONCEPT 4.1

Question 01 Choose the correct answer

1. A boy on slide moves down toward due to the effect off ....

   ⓐ friction ⓑ gravity ⓒ temperature of air ⓓ boy's Hight

2. Gravity keeps the moon revolve in orbit around.................

   ⓐ The Sun ⓑ the earth ⓒ Itself ⓓ another moon

3. The force of .... keeps the planets on their paths around the sun

   ⓐ friction ⓑ gravity ⓒ air resistance ⓓ electricity

4. The acting force on the moon to make it revolves around the earth is.........

   ⓐ Earth's gravity ⓑ sun's gravity ⓒ moon's gravity ⓓ Mars's gravity

5. Magnetism is a kind of................ force.

   ⓐ attraction only ⓑ repulsion only ⓒ visible ⓓ invisible

6. Earth attracts objects towards.................

   ⓐ its center ⓑ the sky ⓒ the moon ⓓ the sun

7. As the mass of the object increases, its .... increases.

   ⓐ movement ⓑ force ⓒ gravity ⓓ illumination

8. The gravitational force of an object .... as its mass increase.

   ⓐ equal zero ⓑ increase ⓒ decrease ⓓ doesn't change

9. Two magnets move away from each other when there is .... force between them.

   ⓐ Gravitational ⓑ repulsion ⓒ contact ⓓ pulling

10. A force that is created between two attached surfaces leading to slow movement is called.................. force.

    ⓐ pushing ⓑ dragging ⓒ friction ⓓ pulling

11. The force that causes skydivers to moves down is called ....

    ⓐ friction ⓑ gravity ⓒ air resistance ⓓ electricity

12. Gravity depends on the .... of a body

    ⓐ Speed ⓑ mass ⓒ length ⓓ age

13. A table stands on the ground needs......................to move.
    - (a) Sunlight
    - (b) mass
    - (c) force
    - (d) air

14. .... locates at the center of our solar system.
    - (a) The moon
    - (b) The Sun
    - (c) the Earth
    - (d) Moon and Sun

15. Any object has .... depending on its mass.
    - (a) Gravity
    - (b) Speed
    - (c) Electric
    - (d) magnetism

16. Gravity pulls objects toward the .... of Earth.
    - (a) The center
    - (b) the sky
    - (c) the moon
    - (d) the Sun

17. Friction force ....the movement of objects.
    - (a) Slows down
    - (b) increases
    - (c) speeds up
    - (d) doesn't affect

18. ....is considered as a type of friction force.
    - (a) Magnetism
    - (b) gravity
    - (c) electric
    - (d) air resistance

19. Earth's gravity pulls down things toward Earth.................
    - (a) in inclined angle
    - (b) perpendicularly
    - (c) horizontally forward
    - (d) vertically upwards

20. Object moves under the effect of................. forces.
    - (a) pull - push
    - (b) pull - drag
    - (c) revolving and push
    - (d) pull and attraction

21. .... is a factor that acts against gravity force.
    - (a) Magnetism
    - (b) mass of object
    - (c) air resistance
    - (d) shape of an object

22. The force of............keeps the planets on their paths around the Sun.
    - (a) air resistance
    - (b) friction
    - (c) gravity
    - (d) electricity

23. The acting force on the moon to make it revolves around the Earth is..........
    - (a) Earth's gravity
    - (b) Sun's gravity
    - (c) moon's gravity
    - (d) Mars's gravity

24. If the distance between the moon and Earth is doubled, the force of gravity..................between them.
    - (a) increases
    - (b) vanishes
    - (c) decreases
    - (d) doesn't change

25. From the materials which are attracted to the magnet..........
    - (a) Iron and nickel
    - (b) aluminum and copper
    - (c) silver and gold
    - (d) aluminum and silver



26. A force that is created between two attached surfaces leading to slow movement is called .... force.
   - (a) Pushing
   - (b) dragging
   - (c) friction
   - (d) pulling

27. A person can exert a weak force to move..............
   - (a) a big truck
   - (b) a real car
   - (c) a very big rock
   - (d) _a toy car

28. The pulling force of a magnet attracts materials made of
   - (a) Wood
   - (b) plastic
   - (c) _iron
   - (d) rocks

29. Magnetism is a force that attracts objects made of the following materials, <u>except</u>.............
   - (a) Iron
   - (b) nickel
   - (c) _wood
   - (d) cobalt

30. Magnet attracting paper clips is evidence that magnet..................
   - (a) needs force
   - (b) _has a force
   - (c) loses force
   - (d) gains force

Question 02 put (true) or (false)

1. The gravity of moon affects the ocean tides. ( )
2. Earth pulls object toward its moon. ( )
3. Gravity is a push force that causes the moving objects to move downward ( )
4. Gravity pulls objects toward the center of Earth. ( )
5. Magnetism is a force of pushing or pulling between two magnets ( )
6. The magnet can exert a pulling force only ( )
7. Magnetism represents pushing or pulling force. ( )
8. The moon stays in fixed orbit around Earth due to the gravity between them. ( )
9. Gravity of Earth pushes objects towards its center. ( )
10. All objects are pulled toward the ground due to the effect of gravity. ( )
11. Magnetism is a type of friction force ( )
12. Gravity pulls objects toward the center of Earth. ( )

13. Earth pulls living organisms only toward its center. ( )
14. Air resistance slows down the speed of parachutes. ( )
15. Air resistance is a factor that speeds up the falling objects toward the earth. ( )
16. The planets revolve around the Sun by the effect of gravitational pushing force. ( )
17. Parachute helps in increasing the velocity of object falling to the ground. ( )
18. The Earth's gravity keeps all planets in their orbits. ( )
19. The force of magnet is always attraction force only. ( )
20. As the mass of the object increases, its gravity increases ( )
21. Magnet has the force of attracting metals such as silver and gold. ( )
22. The orbit of each planet has an ellipse shape. ( )
23. The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ( )
24. Earth rotates around its axis at a speed nearly equals 107000 km/hour ( )
25. The planets revolve around the Sun in a circular orbit. ( )

Question 03 Complete the following sentences

1. The moon moves around .... due to gravity.
2. The gravity of the moon affects the phenomena of ocean ....
3. When a boy moves down a slide, this is due to the force of ....
4. Force may push or .... the object to make it move.
5. Magnetism is a force that attracts .... objects.
6. If the mass of the moon increases than its real mass, its gravitational attraction will ....
7. .... is a pull or push that is applied to an object.

8. Gravity pulls objects toward the .... of Earth.
9. The gravity of Earth is .... than that of the moon because Earth has a greater mass than the moon.
10. Magnet can attract some objects by a force called ....
11. The force between two magnets is called ....
12. .... revolves around the sun in fixed orbit.
13. The direction of Earth's gravity is always toward .... of Earth.
14. The force of gravity is always .... force, and it changes the .... of movement.
15. .... force opposes the motion of the body and slows down its speed.
16. Air resistance is a type of .... force.
17. The force that keeps all planets around the Sun is called ....
18. Earth revolves around the Sun in a fixed path that has .... shape
19. Any object has .... depending on its mass.
20. .... is a force generated between two touching surfaces.

Question 04 write scientific term for each of the following

1. A force that pulls object down toward the Earth's center ( )
2. A phenomenon takes place in oceans and seas due to gravity of moon. ( )
3. The effect that pulls or pushes an object to make it moves. ( )
4. An invisible force that attracts iron paper clips to the magnet. ( )
5. The force that is found between two magnets or between the magnet and an object. ( )
6. The force that opposes the motion of a body across a solid, a liquid or gas. ( )



7. A force between two objects in contact with each other's, and it affects in the opposite direction of movement force. (   )

8. A type of friction force that opposes the movement of an object as it passes through air. (   )

9. The low which states that the force of gravity is constant and acts on all objects in the same way. (   )

10. A scientist proved that the Sun is the center of our solar system. (   )

Question 05 Cross out the odd word

1. Friction – The Sun – Gravity – Air resistance.
2. Nickel – Cobalt – wood – iron.

Question 06 give reason

1. The force of gravity has an important role in the solar system.

....

2. The moon rotates around the Earth in a fixed orbit.

....

3. After the skydivers jump from a plane, they always move toward the ground.

....

4. The moon is attached to the earth.

....

5. Paper clips are pulled towards the magnet

....

6. Gravity of the earth is greater than the gravity of the moon.

....

7. Gravitational force depends on distance

....

8. Planets revolve around the Sun in fixed orbits

....

9. You always land on the ground when you jump up.

....

10. Air resistance affects object movement which falls from a height.

....

11. Some iron nails are attracted to a magnet.

....

12. The skydivers land safely when he open his parachute.

....

Question 07 what happens

1. The distance between the earth and the moon increases twice.

....

2. The mass of moon becomes twice its real mass.

....

3. The mass of the moon decreases to half.

....

4. The gravity of the Sun if its mass decreases than it is now.

....

5. Absence of gravity between Sun and the planets of solar system.

....

6. You throw a basketball into the air.

....

7. A magnet is placed near to some paper clips

....

8. The gravity of the earth is a repulsion force not an attraction force.

....

9. A person uses the brake of a moving bicycle.

....

10. To the speed of skydiver if he opens his parachute during landing.

....

11. If a metal ball and a feather are fallen down from a tower.

....

Question 08 answer the following

1. What is the force that makes planets revolve in fixed orbits around the Sun?

....

2. What are the factors that affect the gravity between two objects?

....

3. **Imagine that jar (A) contains air, while jar (B) doesn't contain air.**

a. The two bodies in jar (A) are affected by..............
(gravity only — air resistance and gravity)

b. The two bodies in jar (B) are affected by..............
(gravity only — air resistance and gravity)

(A) (B)

4. **Look at the opposite figure, then answer:**

The force of .... opposes the .... force of Earth and slows down the falling of skydiver.

انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق

Answers





March Questions Bank



Question 01 Choose the correct answer

1. The area of land where all the water flows in one direction to a common location as ocean is called ....
   - a) tributary
   - b) estuary
   - c) wetland
   - d) **watershed**

   (Qalyoubia 2023)

2. Waste water engineers work in Egypt in................
   - a) Ras Mohammed protector
   - b) Lake Bardwell
   - c) **Bahr Al Baqar plant**
   - d) electrical power plant

   (school book)

3. Prevent developing of Ras Mohamed Protectorate is considered as an example of ....
   - a) **preservation**
   - b) pollution
   - c) sustainability
   - d) consumption

   (Cairo 2023)

4. All the following materials can be used to filter wastewater in simple water filter, except ....
   - a) cotton
   - b) **wood**
   - c) charcoal
   - d) sand

   (Cairo 2023)

5. .... process is used to get filtered water from polluted water.
   - a) **Recycling**
   - b) Sustainability
   - c) Preservation
   - d) Conservation

   (El-Gharbia 2023)

6. Water cycle is considered as an example of ....
   - a) **recycling water**
   - b) preservation of water
   - c) overusing water
   - d) conservation of water

   (Cairo 2023)

7. Water filters are used to remove .... materials from polluted water.
   - a) **harmful**
   - b) solar system
   - c) day and night
   - d) electricity

   (Cairo 2023)

8. .... of resources, requires managing its usage methods.
   - a) Depletion
   - b) **Sustainability**
   - c) Renewability
   - d) Scarcity

9 Pollution is one of the problems to achieve (affect) .... of resources.

(a) preservation (b) <u>sustainability</u> (c) restoration (d) renewability

(school book)

10 .... is an evidence of limiting the possibility of using and accessing resources.

(a) Lake Qaroun (b) <u>Natural protectorates</u> (c) Well water (d) Biome systems

(school book)

11 A protectorate is an example of ....

(a) sustainability of natural resources (b) depletion of natural resources

(c) the quality of natural resources (d) <u>preservation of natural resources</u>

(school book)

12 Wadi Al-Hitan protectorate is one procedure of..................

(a) sustainability of natural resources (b) depletion of natural resources

(c) the quality of natural resources. (d) <u>preservation of natural resources.</u>

(school book)

13 Most of water on Earth is ....

(a) a mixture of fresh and salt water that is found in estuaries.

(b) fresh water that is found underground.

(c) <u>salt water that is found in oceans and seas</u>

(d) fresh water that is found in lakes.

(Cairo 2023)

14 All the following reasons cause water pollution in a river, <u>except</u> ....

(a) litter of a nearby trash dump.

(b) waste of a nearby factory.

(c) chemical fertilizers of a nearby farm.

(d) <u>building a dam across the river.</u>

(school book)

Question 02 put (true) or (false)

1. Upstream is the place where a river starts. ✓
2. Adding some of mud to a clear water can pollute it. ✓
3. Water is considered a non-renewable natural resource. ✗
4. Dams can be used to filter polluted water roused again. ✗
5. Watershed it is an area where water from one source only flows towards. ✗
6. Wastewater engineers decide where to build water treatment plants. ✓
7. Wastewater engineers are scientists who work on recycling wastewater in water treatment plants. ✓
8. When fresh water is polluted, it becomes drinkable. ✗
9. Recycling of polluted water means removing useful materials from water ✗
10. The water of tributaries flows directly into seas and oceans. ✗
11. Cotton can be used as a filter to remove some waste materials from water. ✓
12. Placing cows in many small grass areas is considered as sustainable situation. ✗
13. Some human activities are responsible for water pollution. ✓
14. Building factories is from human strategies to control and conserve fresh water. ✗
15. Cotton can be used as a filter to remove waste from water ✓

Question 03 Complete the following sentences

1. When the rate of rainfall decreases, the level of water in rivers will **decrease** causing **drought**.
2. Clothes can be made from **animal** products or **plant** products.
3. Cotton, **charcoal** and **sand** can be used in making a simple water filter.

4. Wastewater engineers can test the quality of <u>water</u> by checking for the amount of <u>pollutants</u> in water.
5. Water treatment plants recycle the <u>wastewater</u> by removing harmful materials from it to reuse it again.
6. We must take a quick shower to conserve <u>fresh water</u>.
7. Building a <u>dam</u> cross a tributary can change the amount of water in it.
8. Water treatment plants recycle the <u>waste water</u> by removing harmful materials from it to reuse the water again.
9. To conserve water, we can <u>decrease</u> the time of washing our hands.
10. If we use fossil fuels wisely without negatively affecting their amount in the future, this is called <u>sustainability</u>

Question 04 write scientific term for each of the following

	Statement	Term
1	It is an area of land where all the water flows in one direction to a common location such as an ocean, a sea or other large water body.	watershed
2	The action of control reaching of humans to the natural resources or using them.	preservation
3	It means using resources in a way that does not negatively affect the future supply of these resources.	sustainability
4	It is the water that has already been used in homes and different industries.	Wastewater
5	Scientists who work in water treatment plants.	Wastewater engineers
6	They are stations which recycle wastewater by removing harmful materials from wastewater to reuse it.	water treatment plants
7	They are small water bodies such as small creeks or streams that flows into bigger rivers	Tributaries
8	A phenomenon that happens due to the increase of the level of water in rivers and streams.	flooding
9	A phenomenon that happens due to the decrease of the level of water in rivers and streams	drought
10	A type of pollution that occurs as a result of throwing waste in rivers and seas.	water pollution

Question 06 give reason

1. Farms near tributaries may cause water pollution

   Due to using of chemical fertilizers that cause water pollution

2. We should turn off water during washing dishes.

   To conserve fresh water

3. Countries prevent using or developing natural resource in some protected areas of land.

   To preserve natural resources.

4. Cutting down too many trees of forests leads to soil erosion.

   Because it leads to deforestation so water and wind can carry away soil causing soil erosion

5. Scientists recycle fresh waste water to get filtered water again.

   Because fresh water is limited natural resource and its important for all living organisms to survive

Question 07 what happens

1. You mix clear water with small amount of mud.

   It will become dirty water

2. Fish are eaten more than they are replaced in the ocean.

   They become rare and fishing will decrease

3. The rate of rain fall increases on a river.

   The level of water on river will increase causing floods.

4. Polluted water is passed through a water filter.

   Harmful waste materials will be removed from it and becomes filtered water

5. A trash dump is established near a tributary that is connected with river

   The litter will be blown into the water of tributary then into the river causing water pollution.




CONCEPT 4.1

Question 01 Choose the correct answer

1. A boy on slide moves down toward due to the effect off ....
   - a. friction
   - b. gravity
   - c. temperature of air
   - d. boy's Hight
2. Gravity keeps the moon revolve in orbit around.................
   - a. The Sun
   - b. the earth
   - c. Itself
   - d. another moon
3. The force of .... keeps the planets on their paths around the sun
   - a. friction
   - b. gravity
   - c. air resistance
   - d. electricity
4. The acting force on the moon to make it revolves around the earth is.........
   - a. Earth's gravity
   - b. sun's gravity
   - c. moon's gravity
   - d. Mars's gravity
5. Magnetism is a kind of............... force.
   - a. attraction only
   - b. repulsion only
   - c. visible
   - d. invisible
6. Earth attracts objects towards.................
   - a. its center
   - b. the sky
   - c. the moon
   - d. the sun
7. As the mass of the object increases, its .... increases.
   - a. movement
   - b. force
   - c. gravity
   - d. illumination
8. The gravitational force of an object .... as its mass increase.
   - a. equal zero
   - b. increase
   - c. decrease
   - d. doesn't change
9. Two magnets move away from each other when there is .... force between them.
   - a. Gravitational
   - b. repulsion
   - c. contact
   - d. pulling
10. A force that is created between two attached surfaces leading to slow movement is called................. force.
    - a. pushing
    - b. dragging
    - c. friction
    - d. pulling
11. The force that causes skydivers to moves down is called ....
    - a. friction
    - b. gravity
    - c. air resistance
    - d. electricity
12. Gravity depends on the .... of a body
    - a. Speed
    - b. mass
    - c. length
    - d. age



13. A table stands on the ground needs......................to move.
   - a) Sunlight
   - b) mass
   - c) force
   - d) air
14. .... locates at the center of our solar system.
   - a) The moon
   - b) The Sun
   - c) the Earth
   - d) Moon and Sun
15. Any object has .... depending on its mass.
   - a) Gravity
   - b) Speed
   - c) Electric
   - d) magnetism
16. Gravity pulls objects toward the .... of Earth.
   - a) The center
   - b) the sky
   - c) the moon
   - d) the Sun
17. Friction force ....the movement of objects.
   - a) Slows down
   - b) increases
   - c) speeds up
   - d) doesn't affect
18. ....is considered as a type of friction force.
   - a) Magnetism
   - b) gravity
   - c) electric
   - d) air resistance
19. Earth's gravity pulls down things toward Earth.................
   - a) in inclined angle
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   - d) vertically upwards
20. Object moves under the effect of................. forces.
   - a) pull - push
   - b) pull - drag
   - c) revolving and push
   - d) pull and attraction
21. .... is a factor that acts against gravity force.
   - a) Magnetism
   - b) mass of object
   - c) air resistance
   - d) shape of an object
22. The force of............keeps the planets on their paths around the Sun.
   - a) air resistance
   - b) friction
   - c) gravity
   - d) electricity
23. The acting force on the moon to make it revolves around the Earth is..........
   - a) Earth's gravity
   - b) Sun's gravity
   - c) moon's gravity
   - d) Mars's gravity
24. If the distance between the moon and Earth is doubled, the force of gravity..................between them.
   - a) increases
   - b) vanishes
   - c) decreases
   - d) doesn't change
25. From the materials which are attracted to the magnet..........
   - a) Iron and nickel
   - b) aluminum and copper
   - c) silver and gold
   - d) aluminum and silver



26. A force that is created between two attached surfaces leading to slow movement is called .... force.
    - (a) Pushing
    - (b) dragging
    - (c) friction
    - (d) pulling

27. A person can exert a weak force to move..............
    - (a) a big truck
    - (b) a real car
    - (c) a very big rock
    - (d) a toy car

28. The pulling force of a magnet attracts materials made of
    - (a) Wood
    - (b) plastic
    - (c) iron
    - (d) rocks

29. Magnetism is a force that attracts objects made of the following materials, except.............
    - (a) Iron
    - (b) nickel
    - (c) wood
    - (d) cobalt

30. Magnet attracting paper clips is evidence that magnet..................
    - (a) needs force
    - (b) has a force
    - (c) loses force
    - (d) gains force

Question 02 put (true) or (false)

1. The gravity of moon affects the ocean tides. ✓
2. Earth pulls object toward its moon. ✗
3. Gravity is a push force that causes the moving objects to move downward ✗
4. Gravity pulls objects toward the center of Earth. ✓
5. Magnetism is a force of pushing or pulling between two magnets ✓
6. The magnet can exert a pulling force only ✗
7. Magnetism represents pushing or pulling force. ✓
8. The moon stays in fixed orbit around Earth due to the gravity between them. ✓
9. Gravity of Earth pushes objects towards its center. ✗
10. All objects are pulled toward the ground due to the effect of gravity. ✓
11. Magnetism is a type of friction force ✗
12. Gravity pulls objects toward the center of Earth. ✓



13. Earth pulls living organisms only toward its center. ✖
14. Air resistance slows down the speed of parachutes. ✔
15. Air resistance is a factor that speeds up the falling objects toward the earth. ✖
16. The planets revolve around the Sun by the effect of gravitational pushing force. ✖
17. Parachute helps in increasing the velocity of object falling to the ground. ✖
18. The Earth's gravity keeps all planets in their orbits. ✖
19. The force of magnet is always attraction force only. ✖
20. As the mass of the object increases, its gravity increases ✔
21. Magnet has the force of attracting metals such as silver and gold. ✖
22. The orbit of each planet has an ellipse shape. ✔
23. The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. ✔
24. Earth rotates around its axis at a speed nearly equals 107000 km/hour ✖
25. The planets revolve around the Sun in a circular orbit. ✖

Question 03 — Complete the following sentences

1. The moon moves around earth due to gravity.
2. The gravity of the moon affects the phenomena of ocean tide
3. When a boy moves down a slide, this is due to the force of gravity
4. Force may push or pull the object to make it move.
5. Magnetism is a force that attracts metal objects.
6. If the mass of the moon increases than its real mass, its gravitational attraction will increase
7. Force is a pull or push that is applied to an object.

8. Gravity pulls objects toward the center of Earth.
9. The gravity of Earth is bigger than that of the moon because Earth has a greater mass than the moon.
10. Magnet can attract some objects by a force called magnetism
11. The force between two magnets is called magnetism
12. The earth revolves around the sun in fixed orbit.
13. The direction of Earth's gravity is always toward the center of Earth.
14. The force of gravity is always pulling force, and it changes the direction of movement.
15. friction force opposes the motion of the body and slows down its speed.
16. Air resistance is a type of friction force.
17. The force that keeps all planets around the Sun is called gravitational force
18. Earth revolves around the Sun in a fixed path that has oval (ellipse) shape
19. Any object has gravity depending on its mass.
20. Friction is a force generated between two touching surfaces.

Question 04 write scientific term for each of the following

1. A force that pulls object down toward the Earth's center — Gravity
2. A phenomenon takes place in oceans and seas due to gravity of moon. — Tides
3. The effect that pulls or pushes an object to make it moves. — Force
4. An invisible force that attracts iron paper clips to the magnet. — Magnetism
5. The force that is found between two magnets or between the magnet and an object. — Magnetism
6. The force that opposes the motion of a body across a solid, a liquid or gas. — Friction force

7. A force between two objects in contact with each other's, and it affects in the opposite direction of movement force. — Friction force
8. A type of friction force that opposes the movement of an object as it passes through air. — Air resistance
9. The low which states that the force of gravity is constant and acts on all objects in the same way. — The low of motion
10. A scientist proved that the Sun is the center of our solar system. — Nicolous copernicus

Question 05 — Cross out the odd word

1. Friction – The Sun – Gravity – Air resistance. — the sun
2. Nickel – Cobalt – wood – iron. — wood

Question 06 — give reason

1. The force of gravity has an important role in the solar system.
   Because gravity between the sun and the and objects in the solar system keeps the planets revolve in fixed orbits around the sun
2. The moon rotates around the Earth in a fixed orbit.
   Due to the gravitational force of the earth.
3. After the skydivers jump from a plane, they always move toward the ground.
   Due to the earth gravity which pulls them toward the ground.
4. The moon is attached to the earth.
   Due to the gravitational attraction between the earth and the moon.
5. Paper clips are pulled towards the magnet
   Due to the force of magnetism.
6. Gravity of the earth is greater than the gravity of the moon.
   Because the mass of the earth is greater than the mass of the moon.



7. Gravitational force depends on distance

Because when the distance between two objects increases, the gravitational force decreases and vice versa

8. Planets revolve around the Sun in fixed orbits

Due to the great gravitational pulling force between the sun and the planets.

9. You always land on the ground when you jump up.

Due to the effect of gravity that's always pull the objects toward it

10. Air resistance affects object movement which falls from a height.

Because it slows down the movement of object during its falling

11. Some iron nails are attracted to a magnet.

Because the magnetism force pulls them toward the magnet

12. The skydivers land safely when he open his parachute.

The parachute slows down his speed on landing due to air resistance.

Question 07 what happens

1. The distance between the earth and the moon increases twice.

The gravitational attraction between them would become smaller.

2. The mass of moon becomes twice its real mass.

The gravitational force between earth and the moon increases so the moon comes closer to earth and it might crash into the earth.

3. The mass of the moon decreases to half.

The moon would have less gravity.

4. The gravity of the Sun if its mass decreases than it is now.

The gravity of the sun will decrease.

5. Absence of gravity between Sun and the planets of solar system.

The planets will leave their orbits and float off into the space.

6. You throw a basketball into the air.

The ball will go up into the air and then fall down back to the ground due to the gravity force.

7. A magnet is placed near to some paper clips
The magnet will attack the paper clip due to the magnetism force.

8. The gravity of the earth is a repulsion force not an attraction force.
All objects on its surface will move upward away from earth's surface

9. A person uses the brake of a moving bicycle.
The break will produce friction force which slows the movement of the bicycle

10. To the speed of skydiver if he opens his parachute during landing.
the speed of the skydiver decreases gradually due to air resistance

11. If a metal ball and a feather are fallen down from a tower.
The metal ball will reach the ground first.

Question 08 answer the following

1. What is the force that makes planets revolve in fixed orbits around the Sun?
The gravitational force (the gravity).

2. What are the factors that affect the gravity between two objects?
The mass of two objects and the distance between them.

3. **Imagine that jar (A) contains air, while jar (B) doesn't contain air.**

a. The two bodies in jar (A) are affected by..............
(gravity only — air resistance and gravity)

b. The two bodies in jar (B) are affected by..............
(gravity only — air resistance and gravity)

(A) (B)



4. **Look at the opposite figure, then answer:**

The force of air resistance opposes the gravitational force of Earth and slows down the falling of skydiver.



انتهت الأسئلة مع أطيب الامنيات بالنجاح والتوفيق



March Revision

Mr. Ahmed ElBasha

(1) Write the scientific term:

1)	They are small water bodies such as small creeks or streams that flow into bigger rivers.	....
2)	A building established across a river which can hold water behind it.	....
3)	The action of control reaching of humans to the natural resources or using them.	....
4)	It means using resources in a way that does not negatively affect the future supply of these resources.	....
5)	It is the water that has already been used in homes and different industries	....
6)	A force that pulls object down toward the Earth's center.	....
7)	A phenomenon takes place in oceans and seas due to gravity of moon	....
8)	The effect that pulls or pushes an object to make it moves.	....
9)	The force that is found between two magnets or between the magnet and an object.	....
10)	The pulling force that causes object to fall down toward Earth's surface.	....
11)	The force that slows down the movement of objects through air.	....
12)	The force by which metals are attracted or pulled to a magnet	....
13)	A type of friction force that opposes the movement of an object as it passes through air.	....
14)	The tool that is used by skydiver to slow his drop	....

✸(2) Choose the right answer:

1. All the following reasons cause water pollution in a river,, except ....

a. litter of a nearby trash dump.
b. waste of a nearby factory.
c. chemical fertilizers of a nearby farm.
d. building a dam across the river.

2. Friction force .... the movement of objects.

a. slows down
b. increases
c. speeds up
d. doesn't affect

3. Magnetism is a force that attracts objects made of the following materials, except .....

a. iron. b. nickel. c. wood. d. cobalt.

4. The force that opposes the movement of objects as they pass through air is known as ....

a. magnetism. b. gravity. c. electric. d. air resistance.

5. All the following sentences show the effect of gravity, except ....

a. the moon orbits the Earth.
b. the planets orbit the Sun.
c. the atmosphere is kept around Earth.
d. the repulsion between two magnets.

6. .... is considered as a type of friction force.

a. Air resistance
b. Magnetism
c. Gravity
d. Electric force

7. When a basketball falls down from a height, it is affected by ....

a. air resistance force only.
b. gravity force only.
c. air resistance and gravity force.
d. air resistance and electric force.

8. .... is a factor that acts against gravity force.

a. Magnetism
b. Mass of an object
c. Air resistance
d. Shape of an object

9. Any object has mass must have ....

a. gravity force.
b. definite color.
c. definite shape.
d. electric charge.

10. .... force acts on all objects on Earth.

a. Gravity b. Speed c. Electric d. Magnetism

11. Gravity depends on the .... of a body.

a. speed
b. mass
c. length
d. age

12. Paper of books are made from ....

a. oil products.
b. animal
c. trees.
d. human

13. Plastic cup is made from .... products.

a. plant
b. wool of sheeps.
c. oil
d. cotton.

14. Prevent developing of Ras Mohammed Protectorate is considered as an example of ....

a. preservation.
b. pollution.
c. sustainability.
d. consumption.

15. If some rabbits are placed in only one large area of grass, this is considered as an example of .... of green areas.

a. deforestation
b. preservation
c. sustainability
d. pollution

16. Among the factors that help us to make resources sustainability is ....

a. overpopulation.
b. overuse of resources.
c. damage of resources.
d. pollution control.

17. .... can be used to recycle wastewater to be used again in human activities.

a. Bottles
b. Filters
c. Dams
d. Generators

18. All the following materials can be used to filter wastewater in simple water filter, except ....

a. cotton.
b. wood.
c. charcoal.
d. sand.

19. .... process is used to get filtered water from polluted water.

a. Recycling
b. Sustainability
c. Preservation
d. Conservation

20. .... are special kinds of scientists who work on recycling water in water treatment plants.

a. Hydrologists
b. Aquatic biologists
c. Wastewater engineers
d. Marine biologists

21. The force of .... keeps the planets on their paths around the Sun.

a. air resistance
b. friction
c. gravity
d. electricity

22. Gravity is .... force that holds all objects in their places.

a. visible pulling
b. visible pushing
c. invisible pulling
d. invisible pushing

23. The planets revolve around the Sun in fixed .... orbits.

a. oval b. irregular c. rectangular d. triangular

24. Which force pulls a basketball to fall into the basketball hoop ? ....

a. Magnetism.
b. Friction.
c. Gravity.
d. Motion.

25. Magnetism is a kind of .... force.

a. attraction only
b. repulsion only
c. visible
d. invisible

26. A person can exert a weak force to move ....

a. a big truck.
b. a toy car.
c. a real car.
d. a very big rock.

27. Earth attracts objects towards ....

a. its center. b. the sky. c. the moon. d. the Sun.

28. A boy on a slide moves down toward the ground due to the effect of ....

a. the boy's height.
b. gravity.
c. friction.
d. the temperature of air.

29. Gravity keeps the moon revolve in orbit around ....

a. Sun. b. Earth. c. itself. d. another moon.

30. If there is no Earth's gravity, the moon would ....

a. revolve faster around Earth.
b. still orbit Earth.
c. attract to Earth.
d. float off into space.

31. All the following are properties of Earth's gravity, except ....

a. it pushes objects upward.
b. it affects the moon.
c. it pulls objects downward.
d. it is a type of attraction force.

✹(3) Complete the following:

1. Clothes can be made from .... products or .... products.
2. If we use fossil fuels wisely without negatively affecting their amount in the future, this is called ....
3. To conserve water, we can .... time of washing our hands.
4. Cotton .... and .... can be used in making a simple water filter.
5. Water filters are used to remove .... materials from polluted water .
6. Wastewater engineers can test the quality of .... by checking for the amount of .... in water.
7. Water treatment plants recycle the .... by removing harmful materials from it to reuse it again.
8. Objects move down from high place toward the ground due to the effect of ....
9. The moon moves around .... due to gravity.
10. Gravity pulls objects toward the .... of Earth.
11. The gravity of the moon affects the phenomenon of ocean ....
12. When the distance between the moon and Earth increases, the gravitational attraction between them ....
13. If the mass of the moon increases than its real mass, its gravitational attraction will ....
14. Force may push or .... the object to make it move.
15. The force that is needed to move a small bike is .... than that needed to move a truck.
16. A magnet can attract some objects by a force called ....
17. The direction of Earth's gravity is always toward .... of Earth.
18. The astronauts float in space due to the absence of ....
19. The gravity of Earth is .... than that of the moon because the Earth has .... mass.
20. The Sun locates at the center of ....
21. In the solar system, all planets revolve in fixed paths called ....
22. The force that keeps all planets around the Sun is called ....
23. Gravity is the attraction or pulling force that keeps all .... in their orbits around the Sun.

24. Earth revolves around the Sun in a fixed path that has .... shape.

25. When a ball is thrown into the air, it moves back down, so its .... changes due to the effect of ....

26. A magnet has .... force that attracts and pulls metal objects toward it.

27. A parachute in air is affected by .... that acts against the .... force of Earth.

28. A person can control the speed of his bike by using .... to slow down its movement.

29. The force that arises between the bicycle brake and the tires is called .... which slows down the movement of the bicycle.

30. Air resistance is a type of .... force.

✸(4) Put (√) or (X):

1. Waste produced from factories that are built near a watershed can affect the quality of water in downstream. (   )
2. Preservation and sustainability are ways to conserve natural resources. (   )
3. Placing many cows in small grass areas is considered as unsustainable situation. (   )
4. Recycling of wastewater means removing waste materials from it. (   )
5. Cotton can be used as a filter to remove waste from water. (   )
6. Objects are pushed away of each other due to gravity. (   )
7. Planets in the solar system revolve in fixed orbits due to the gravity between the Sun and planets. (   )
8. If the gravity of Earth disappears the moon will float off into space. (   )
9. The gravity of moon affects the ocean tides. (   )
10. Gravity affects the movement of objects. (   )
11. Water is considered as a nonrenewable natural resource. (   )
12. Adding some of mud to a clear water can pollute it. (   )
13. Dams can be used to filter polluted water to be used again. (   )
14. The Sun revolves around Earth. (   )
15. The planets revolve around the Sun by the effect of gravitational pushing force. (   )
16. Gravity is an attraction force that can be seen easily. (   )
17. The orbit of each planet has an ellipse shape. (   )
18. The Earth's gravity keeps all planets in their orbits. (   )
19. The scientist Nicolaus Copernicus stated that Earth revolves around the Sun. (   )
20. Planets revolve around the Sun in fixed orbits due to the effect of gravity. (   )
21. Small planets have bigger gravity than big planets. (   )
22. Gravity affects only the moving objects but doesn't affect the objects at rest. (   )
23. The moon stays in fixed orbit around Earth due to the gravity between them. (   )
24. All objects on Earth's surface is affected by magnetism force. (   )
25. Gravity of Earth pushes objects towards its center. (   )

26. The direction and mass of an object are changed due to gravity.	( )
27. All objects are pulled toward the ground due to the effect of gravity.	( )
28. Any object on Earth's surface is affected by repulsion force of gravity	( )
29. As the mass of an object increases, its gravitational attraction decreases.	( )
30. If two objects don't touch each other, there is no gravity between them.	( )
31. Force is the reason of motion of any body.	( )
32. A magnet has an invisible force called magnetism .	( )
33. The force of magnet is always attraction force only .	( )
34. Gravity is similar to magnetism because both of them has only pulling force.	( )
35. Gravity is not affected by the mass of an object.	( )
36. Gravity of Earth does not change the direction of a body that is thrown up into air.	( )
37. Earth pulls living organisms only toward its center.	( )
38. Force of gravity can be seen easily, but we cannot see its effects .	( )
39. Magnetism is a type of friction force.	( )
40. Skydiving sport depends on gravity force and air resistance force.	( )
41. Friction force opposes the movement of an object.	( )
42. Air resistance slows down the speed of parachutes.	( )
43. Magnetism is the force that attracts some metals.	( )
44. Air resistance is a factor that speeds up the falling objects toward Earth.	( )
45. All objects on Earth's surface are affected by gravity force which pulls objects downward.	( )
46. Air resistance is a type of friction force.	( )
47. Gravity is attraction or repulsion force between two objects.	( )
48. Gravity pulls objects toward the center of Earth.	( )
49. Wastewater engineers decide where to build water treatment plants.	( )
50. Soil pollution causes the death of plants and animals.	( )
51. You must decrease the time of taking your shower to conserve water.	( )
52. You can conserve water by leaving the tap open during brushing your teeth.	( )

✹(5) Give reasons for:

1. We should turn off water during washing dishes.

....

2. Scientists recycle fresh wastewater to get filtered water again.

....

3. The force of gravity has an important role in the solar system

....

4. The moon is attracted to Earth.

....

5. Paper clips are pulled toward the magnet.

....

6. Gravity of Earth is greater than gravity of the moon.

....

7. You always land on the ground when you jump up.

....

8. Skydiver opens his parachute during landing.

....

9. Some iron nails are attracted to a magnet.

....

10. Air resistance affects the movement of an object which falls from a height.

....

11. Planets revolve around the Sun in fixed orbits.

....

✹(6) What happens to ... ?

1. if you mix clear water with small amount of mud?

....

2. The distance between the moon and Earth increases to twice.

....

3. The gravity of Earth is a repulsion force not an attraction force.

....

4. There is no gravity on Earth.

....

5. To planets if the gravity of the Sun disappears.

....

6. To the speed of skydiver if he opens his parachute during landing.

....

7. To the gravity pulling force between two bodies when their masses decrease.

....

8. If a metal ball and a feather are fallen down from a tower.

....

✹(7) TRY TO ANSWER:

1. Look at the opposite figure, then choose the correct answer from those between brackets :

1. **The force that causes skydivers to move down is called ....**

   (gravity of Earth - gravity of moon - gravity of Sun)

2. **When skydivers open their parachutes they are attracted to ....**

   (Earth's center - moon's surface - the sky)

2. Look at the opposite figure, then choose the correct answer.

1. **The force between the two magnets is called ....**

   a. gravity. b. magnetism.

   c. contact force. d. wind force.

2. **The repulsion force between these two magnets causes them to move ....**

   a. away from each other. b. toward each other.

   c. to the Earth's surface. d. to the space.

3.

Look at the opposite picture, then answer :

(A) Put (✓) or (✗) :

1. When a skydiver opens his parachute, the air resistance increases. ( )
2. Air resistance opposes the movement of a skydiver when he opens his parachute. ( )

(B) Choose the correct answer :

1. The force of .... pulls the skydiver down towards the surface of Earth.

   a. air resistance b. gravity c. magnetic field d. magnetism

2. The force of .... decreases the speed of landing of skydiver.

   a. magnetism b. magnetic field c. air resistance d. gravity

4. Imagine that jar (A) contains air while jar (B) doesn't contain air.

(A) Choose the correct answer:

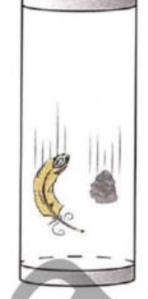


Figure (A) Figure (B)

1. The two bodies in jar (A) are affected by ....

a. gravity force only. b. friction force only.

c. air resistance and gravity. d. gravity and electricity.

2. The two bodies in jar (B) are affected by ....

a. gravity force only. b. air resistance only.

c. air resistance and gravity. d. gravity and electricity.

3. In jar (A), the rock reaches faster than the feather because it has ....

a. larger surface area. b. higher temperature.

c. less mass. d. lower surface area.

(B) Put (√) or (X):

1. In jar (B), the rock will reach first.

2. In jar (A), air resistance affects the feather more than the rock during falling downward.

3. In jar (A) the rock falls before the feather due to the absence of air resistance.

✸(8) Choose from column (B) what suits it in column (A) :

1.

(A)	(B)
1. Cotton	**a.** can be used in making plastic.
2. Oil products	**b.** can be used in making paper.
3. Trees	**c.** can be used in making clothes.
4.	**d.** can be used in making cans.

1. **2.** **3.**

2.

(A)	(B)
1. Magnetism	**a.** is the force of attraction between objects that have mass.
2. Gravity	**b.** is a pull or push that affects an objects.
3. Force	**c.** is the change of an object location due to force.
4.	**d.** is the force between two magnets or between the magnet and an object.

1. **2.** **3.**

Model Answer

(1) Write the scientific term:

1. Tributaries
2. Dam
3. Preservation
4. Sustainability
5. Fresh water
6. Gravity
7. Ocean tides
8. Force
9. Magnetism
10. Gravity
11. Friction force
12. Magnetism
13. Air resistance
14. Parachute

(2) Choose the right answer:

1. D
2. A
3. C
4. D
5. D
6. A
7. C
8. C
9. A
10. A
11. B
12. C
13. C
14. A
15. C
16. D
17. B
18. B
19. A
20. A
21. C
22. C
23. A
24. C
25. D
26. B
27. A
28. B
29. B
30. D
31. A

(3) Complete the following:

1. Plant – animal
2. Sustainability
3. Decrease
4. Sand – charcoal
5. Harmful
6. Water – pollutants
7. Wastewater
8. Gravity
9. Earth
10. Center
11. Tides
12. Decrease
13. Increase
14. Pull
15. Smaller
16. Magnetism
17. Center
18. Gravity
19. Larger – more
20. Solar system
21. Orbits
22. Gravitational force
23. Planets
24. Oval
25. Direction – gravity
26. Magnetism
27. Air resistance – gravity
28. Brake
29. Friction force
30. Friction

(4) Put (√) or (X):

1. (√)
2. (√)
3. (√)
4. (√)
5. (√)
6. (X)
7. (√)
8. (√)
9. (√)
10. (√)
11. (X)
12. (√)
13. (X)
14. (X)
15. (X)
16. (X)
17. (√)
18. (X)
19. (√)
20. (√)
21. (X)
22. (X)
23. (√)
24. (X)
25. (X)
26. (X)
27. (√)
28. (X)
29. (X)
30. (X)
31. (√)
32. (√)
33. (X)
34. (X)
35. (X)
36. (X)
37. (X)
38. (X)
39. (X)
40. (√)
41. (√)
42. (√)
43. (√)
44. (X)
45. (√)
46. (√)
47. (X)
48. (√)
49. (√)
50. (√)
51. (√)
52. (X)

(7) Give reasons for:

1. To conserve fresh water.
2. Because fresh water is a limited renewable natural resource which is important for all living organisms to survive.
3. Because gravity between the Sun and objects in the solar system keeps the planets revolve in fixed orbits.
4. Due to gravitational attraction between Earth and the moon.
5. Due to the force of magnetism.
6. Because the mass of Earth is greater than the mass of the moon.
7. Because Earth pulls you by the effect of gravity.
8. To slow down his speed during landing due to the air resistance.
9. Because magnetism force pulls them to the magnet.
10. Because it slows down the movement of an object during its falling.
11. Due to the great gravitational pulling force between the Sun and planets.

✹(8) What happens to … ?

1. It will become dirty water.
2. The gravitational attraction between them would become smaller.
3. All objects on Earth will move upward away from Earth's surface.
4. All objects on its surface will float off into space.
5. They will leave their orbits and float off into space.
6. The speed of skydiver decreases gradually.
7. The gravity force will decrease.
8. The metal ball will reach the ground first.

✹(9) TRY TO ANSWER:

1. **1. gravity of earth – earth's center**	**2.** **1. b** **2. a**
3. **A.** **1.** (√) **2.** (√) **B.** **1. b** **2. c**	**4.** **A.** **1. c** **2. a** **3. d** **B.** **1.** (X) **2.** (√) **3.** (X)

✹(8) Choose from column (B) what suits it in column (A) :

1.
1. c **2. a** **3. b**
2.
1. d **2. a** **3. b**



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1-Choose the correct answer

1. **All the following materials can be used to filter wastewater in simple water filter, except……….**

a. cotton. b. wood. c. charcoal. d. sand.

2. **Magnetism is a kind of… force.**

a. only attraction b. only repulsion c. visible d. invisible

3. **………….is a factor that acts against gravity force.**

a. Magnetism b. Mass of an object

c. Air resistance d. Shape of an object

4. **Gravity keeps the moon in orbit around…………**

a. Sun. b. Earth. c. itself. d. another moon.

5. **Wind turbine blades move by the effect of………**

a. magnetism. b. wind. c. electricity. d. water vapor

6. **Paper of books are made from……**

a. oil products. b. wool of seeps. c. trees. d. cotton.

7. **Plastic cup is made from products.**

a. plant b. animal c. oil d. human

8. **Prevent developing of Ras Mohammed Protectorate is considered as an example of…………**

a. Preservation b. pollution. c. sustainability. d. consumption.



9. **If some rabbits are placed in only one large area of grass, this is considered as an example of.........of green areas.**

a. deforestation b. preservation
c. sustainability d. pollution

10. **Among the factors that help us to make resources sustainability is...**

a. overpopulation. b. overuse of resources.
c. damage of resources. d. pollution control.

11. **Family (A) consists of 3 members, and family (B) consists of 4 members. If you know that each member uses 20 liters to wash their hands daily, then the total amount of water that is used by family (A) is that is used by family (B).**

a. more than b. less than
c. double d. equal to

12. **can be used to recycle wastewater to be used again in human activities.**

a. Bottles b. Filters c. Dams d. Generators

13. **Gravitational force of Earth is affected by..........**
a.mass and time b. mass and distance.
c. mass only. d. distance only.

14. **The speed of earth's revolution around the sun is nearly.......km per hour**

a.more than 100,000 b. more than 200,000
c. less than 100,000 d. less than 50,000

15. The level of water in a river increase causing flooding, when there is more..

a. rainfall. b. wind. c. sunlight. d. sediments.

16. The force of....... keeps the planets on their paths around the Sun.

a. air resistance b. Friction c. Gravity d. electricity

17. Sand, charcoal and cotton can be used to remove all the following materials from wastewater, except........

a. small pieces of plastic. b. salt dissolves in water.

c. small particles of mud. d. small pieces of rocks.

18. The planets revolve around the Sun in fixed orbits.

a. oval b. irregular c. rectangular d. triangular

19. Cutting down too many trees of forests leads to............

a. deforestation and soil deposition b. overpopulation and soil erosion

c. deforestation and soil erosion. d. overpopulation and soil deposition

20. If there is no Earth's gravity, the moon would........

a. revolve faster around Earth. b. still orbit Earth.

c. attract to Earth. d. float off into space.

21. All the following sentences shows the effect of gravity, except...

a. the moon orbits the Earth.

b. the planets orbit the Sun.

c. the atmosphere is kept around the Earth.

d. the repulsion between two magnets.



22. Earth attracts objects towards........

a. its center. b. the sky. c. the moon. d. the Sun.

23. The force that opposes the movement of objects as they pass through air is known as.............

a. magnetism. b. gravity. c. electric. d. air resistance.

24. If there is no air resistance on Earth and we drop an iron ball and wooden ball at the same time from the same height, they will................

a. reach the floor at the same moment.

b. reach the floor at different time.

c.be affected by magnetic force during falling

d. move upward against gravity force.

25. .... is considered as a type of friction force

a. Air resistance b. Magnetism c. Gravity d. Electric force

26. All the following are properties of Earth's gravity, except...........

a. it is a type of friction force. b. it affects the moon.

c. it pulls objects downward. d.it is a type of attraction force.

27. A table stands on the ground needs.........to move.

a. sunlight b. mass c. force d. air

28. Most of water on Earth is..........

a. fresh water that is found underground.

b. a mixture of fresh and salt water that is found in rivers

c. salt water that is found in oceans and seas.

d. fresh water that is found in lakes.



29. Which of the following will take longer time to reach the ground if they are dropped from 10 meter height at the same time?

a. An iron ball. b. A feather. c. A plastic ball. d. A hammer.

30. The area of land where all the water flows to a common location as ocean is called..........

a. groundwater. b. estuary. c. wetland. d. watershed.

2-Write the scientific term

1- The effect that pull or push an object to make it move ( )

2- The force that is found between two magnets or between the magnet and an object. ( )

3- The force that slows down the movement of objects through air( )

4- The action of control reaching of humans to the natural resources or using them. ( )

5- It means using resources in a way that does not negatively affect the future supply of these resources. ( )

6- Building established across a river which can hold water behind it. ( )

7-A force that pulls objects down toward the earth's surface( )

8-The force that slows down the movement of objects touch each.

9- The change of an object position related to another object.( )

10- A celestial body that orbits the earth ( )

11- It is an area of land where all water flows to a common location usually an ocean, a sea or other large water body. ( )

12- The tool that is used by skydiver to slow his drop. ( )



13- The force of gravity is constant and acts on all objects in the same way. ( )

14- A phenomenon takes place in oceans and seas due to gravity of moon. ( )

3-Put (√) or (X)

1- The force of magnet is always attraction force. ( )

2- Gravity is similar to magnetism because both of them has only pulling force. ( )

3- Magnet must touch objects to attract them. ( )

4- Gravity of Earth does not change the direction of a body that is thrown up into the air. ( )

5- Skydiving sport depends on gravity force and air resistance force. ( )

6- Earth pulls living organisms only towards its center. ( )

7- Air resistance is a factor that speeds up the falling objects toward the Earth. ( )

8- There is no air in space, so air resistance slows down the movement of objects through space. ( )

9- Air resistance is a type of attraction force. ( )

10- We must conserve fresh water because it is limited on Earth.( )

11- Building factories is from human strategies to control and conserve fresh water. ( )

12- Force is the reason of motion of any body. ( )

13- You must decrease the time of taking your shower to



conserve water. ( )

14- Gravity is attraction or repulsion force between two objects( )

15- You can conserve water by leaving the tap open during brushing your teeth. ( )

16- Adding some of mud to clear water can pollute it. ( )

17- Objects are pushed away of each other due to gravity. ( )

18-Planets in the solar system revolve in fixed orbits due to the gravity between the sun and planets. ( )

19- The gravitational force of Earth to a person in a flying plane is smaller than it when the same person stands on the ground. ( )

20- Gravity affects only the moving objects but does not affect the objects at rest. ( )

4- Give reasons for:

1. You should turn off tap during brushing your teeth.

....

2. Groundwater is called by this name.

....

3. Farms near tributaries may cause water pollution.

....

4. Countries prevent using or developing natural resources in some protected areas of land.

....



5. We should turn off water during washing dishes

………………………………………………………………………………

6. Scientists recycle fresh wastewater to get filtered water again.

………………………………………………………………………………

7. Wastewater engineers test the treated water

………………………………………………………………………………

8. The moon is attracted to Earth.

………………………………………………………………………………

9. The gravity between two objects is affected by the distance between them.

………………………………………………………………………………

10. The force of gravity has an important role in the solar system.

………………………………………………………………………………

11. Paper clips are pulled toward the magnet.

………………………………………………………………………………

12. The ball changes its direction after we throw it upwards.

………………………………………………………………………………

13. Gravity of Earth is greater than gravity of the moon.

………………………………………………………………………………

14. You always land on the ground when you jump up.

………………………………………………………………………………

15. A skydiver opens his parachute during landing.



…………………………………………………………………………………………

16.When you press the bicycle brake, its speed will decrease until it stops after few seconds.

…………………………………………… ……………………………………

17.Some iron nails are attracted to a magnet.

…………………………………………………………………………………

18.Air resistance affects the movement of an object which falls from a height.

…………………………………………………………………………………

19.A paper sheet takes a longer time to reach Earth's surface than a paper clip if they are thrown from the same height.

…………………………………………………………………………………

20.Planets revolve around the Sun in fixed orbits.

…………………………………………………………………………………………

5-Complete the following sentence

1. Air resistance is a type of…………. force.

2. The moon moves around the……………. due to gravity.

3. When the mass of the object increases, the gravitational attraction……………

4. Some human activities cause water ……..that lead to drought or..

5. Plastic is made from……. while paper and wood are made from…………



6.If we use fossil fuels wisely without negatively affecting their amount in the future, this is called......................

7. When the rate of rain fall decreases, the level of water in the river......... ... causing.................

8. the scientist Nicolaus Copernicus stated that therevolves around the.........

9. The gravity of Earth is........... than that of the moon because the Earth has... mass

10. Groundwater is replaced by..........

11. In the solar system all planets revolve in ..... paths called.....

12. Skydiving sport depends on ....force and force

13. To conserve water, we can ....time of washing our hands.

14. When the distance between the moon and the Earth increases, the gravitational attraction between them.........

15. Objects move from high places toward the ground due to the effect of............

6-What happens :

1. **If the mass of the moon becomes twice its real mass.**

....

....

2. **If the mass of the moon decreases to half.**

....

....



3. **If there is no gravity on Earth.**

....

4. **If the gravity of Earth is a repulsion force not an attraction force.**

....

....

5. **To the planets if the gravity of the Sun disappears.**

....

....

6. **To the speed of skydiver if he opens his parachute during landing.**

....

....

7. **If the rate of rainfall increases on a river.**

....

8. **If a trash dump is established near a tributary that is connected with a river.**

....

....

9. **If you mix clear water with small amount of mud.**

....

10. **If the distance between the moon and Earth increases to twice.**

....

....

Model answer.

1-Answer choose

1) b	2) d	3) c	4) b	5) b	6) c
7) c	8) a	9) c	10) d	11) b	12) b
13) b	14) a	15) a	16) c	17) b	18) a
19) c	20) d	21) d	22) a	23) d	24) a
25) a	26) a	27) a	28) c	29) c	30) b

2-Answer Scientific term

1- Force 2- Magnetism 3-Air resistance 4- Preservation 5- Sustainability

6-Dam 7- Gravity 8- Friction 9- Motion 10-Moon

11- Watershed 12- Parachute 13.Law of motion 14.Ocean tide

3-put (√) or (x)

1) x	2) x	3) x	4) x	5) √	6) x
7) x	8) x	9) x	10) √	11) x	12) √
13) √	14) x	15) x	16) √	17) x	18) √
19) √	20) x				

4-Answer Give reason

1. To conserve fresh water..
2. Because it is stored in cracks and spaces of underground rocks.
3. Due to using of chemical fertilizers that cause water pollution.
4. To preserve natural resources.
5. To conserve fresh water
6. Because fresh water is a limited renewable natural resource which is important for all living organisms to survive
7. To make sure it is safe before the water is released to rivers and



lakesor used by human

8. Due to gravitational attraction between Earth and the moon.
9. Because when the distance between them decreases, the gravityincreases and vice versa.
10. Because gravity between the Sun and objects in the solar system keeps the planets revolve in fixed orbits.
11. Due to the force of magnetism.
12. Because gravity force always pulls it downwards.
13. **Because the mass of Earth is greater than the mass of the moon.**
14. Because Earth pulls you by the effect of gravity.
15. To slow down his speed during landing due to the air resistance.
16. Because the brake produces friction force which slows the movementof the bicycle.
17. Because magnetism force pulls them to the magnet.
18. **Because it slows down the movement of an object during its falling.**
19. Because the paper sheet has more surface area, so it has more air resistance and takes longer time than paper clip.
20. Due to the great gravitational pulling force between the Sun and planets.

5-Answer complete

1. Friction 2. earth/ planet 3- increases 4-imbalance – flood
5. oil products – trees 6-sustainability 7-decreases – drought
8. planets – sun 9. larger – large 10- rains 11- oval – orbit
12-gravity- air resistance 13-reduce 14-decrease - 15- gravity



6-What happens ?

1. The gravitational force between Earth and the moon increases, so themoon comes closer to Earth and it might crash into Earth.
2. The moon would have less gravity.
3. All objects on its surface will float off into space.
4. All objects on Earth will move upward away from Earth's surface.
5. They will leave their orbits and float off into space.
6. The speed of skydiver decreases gradually.
7. The level of water in this river will increase causing flooding
8. The litter of the trash dump will be blown into the water of tributarythen into the river causing water pollution
9. It will become dirty water
10. The gravitational attraction between them would become smaller.

Give the reason.

1- Scientists recycle fresh wastewater to get filtered water again.
   Because fresh water is limited and very important for living organisms
2- Farms near tributaries may cause water pollution
   Due to using of chemical fertilizers that cause water pollution
3- Countries prevent using or developing natural resources in some protected areas of land
   To preserve natural resources
4- Wastewater engineers test the treated water
   To make sure it is safe before it is used by humans
5- The moon is attracted to Earth.
   Due to the gravitational force between them
6- The gravity between two objects is affected by the distance between them
   Because when distance between them decreases, the gravity increases and vice versa
7- The force of gravity has an important role in the solar system.
   Because gravity between sun and planets keeps the planets revolve in fixed orbits
8- Paper clips are pulled toward the magnet.
   Due to the force of magnetism




9- The ball changes its direction after we throw it upwards.
Because the gravity pulls it downward

10- Gravity of Earth is greater than gravity of the moon
Because the mass of Earth is greater than the mass of the moon

11- Skydiver opens his parachute during landing.
To slow down his speed on landing due to air resistance

12- When you press the bicycle brake, its speed will stop moving after a few seconds
Because the brake produces friction force that slows the movement until it stops

13- Some iron nails are attracted to a magnet.
Due to the force of magnetism

14- Air resistance affects the movement of an object which falls from a height.
Because it slows it during falling

15- A paper sheet takes longer time to reach Earth's surface than a paper clip if they are thrown from the same height
Because the paper sheet has more surface area so it has more resistance and takes longer time than paper clip

16- Planets revolve around the sun in fixed orbits.
Because of the gravitational force between the sun and the planets




What happens to/ if?

1- You mix clear water with a small amount of mud.
   It will become dirty water.
2- If a trash dump is established near a tributary that is connected with a river
   The litter of the trash dump will be blown into water of tributary then into river causing water pollution
3- The distance between the moon and Earth increases to twice
   The gravitational force will be smaller.
4- The mass of the moon decreases to half.
   The gravity will decrease.
5- The mass of the moon becomes twice its real mass
   The gravity increases so the moon comes closer to Earth and it might crash into Earth
6- The gravity of Earth is a repulsion force not attraction force
   All objects wil move upward a way from the Earth's surface
7- There is no gravity on Earth.
   All objects will float off into space.
8- Planets if the gravity of the sun disappears.
   They will leave their orbits and float off into space
9- The speed of skydiver if he opens his parachutes during landing
   The speed decreases gradually

10- The gravity pulling force between two bodies when their masses decreases

The gravity will decrease.

11- A metal ball and a feather are fallen down from a tower.

The metal ball will reach the ground first.

12- You throw two iron balls have the same mass from the same height

They will reach the ground at the same time.

13- There is no air resistance and two objects with different masses are thrown from the same height

They will reach the ground at the same time.

Q1: Choose the correct answer.

1- The area of land where all the water flows to a common location as ocean is called ....

a) Tributary
b) Estuary
c) Wetland
d) Watershed

2- Tributary usually ends by the flowing of its water into bigger ....

a) Ocean
b) Sea
c) River
d) Lake

3- All the following reasons cause water pollution in a river except ....

a) Litter of a nearby trash dump
b) Waste of a nearby factor
c) Chemical fertilizers of a nearby farm
d) Building a dam across the river

4- The level of water in a river increase causing flooding when there is more ....

a) Rainfall.
b) Wind
c) Sunlight
d) Sediments

5- Family (A) consists of 3 members and Family B consists of 4 members, if you know that each member use 20 liters to wash hand daily so the total amount of water that is used by family A is .... than is used by family (B)

a) More than
b) Less than
c) Double
d) Equal to

6- .... process is used to get filtered water from polluted water.

a) Recycling
b) Sustainability
c) Preservation
d) Conservation

7- Sand, charcoal, and cotton can be used to remove all the following materials from wastewater except ....

a) Small pieces of plastic
b) Salt dissolves in water
c) Small particles of mud
d) Small pieces of rocks

8- All the following can be used to filter wastewater in simple water filter except

a) Cotton
b) Wood
c) Charcoal
d) Sand




9- If there was no gravity on Earth, the moon would ....
  a) Revolve faster around Earth.
  b) Still orbit Earth.
  c) Attract to Earth
  d) Float off into space.

10- Gravitational force is affected by ....
  a) Mass and time
  b) Mass and distance
  c) Mass only
  d) Distance only

11- Earth attracts objects towards ....
  a) Its center
  b) The sky
  c) The moon
  d) The sun

12- Magnetism is a kind of .... force
  a) Attraction only
  b) Repulsion only
  c) Visible
  d) Invisible

13- Wind turbine blades move by the effect of ....
  a) Magnetism
  b) Wind
  c) Electricity
  d) Water vapor

14- Which force pulls a basketball to fall into the basketball hoop?
a) Magnetism
b) Friction
c) Gravity
d) Motion

15- Which of the following has the least attraction force?
a) The moon
b) The Earth
c) The sun
d) The magnet

16- Friction force .... the movement of objects
a) Slows down.
b) Increases
c) Speeds up
d) Does not affect.

17- .... is considered as a type of friction force.
a) Air resistance
b) Magnetism
c) Gravity
d) Electric force

18- When a basketball falls down from a height, it is affected by ....
a) Air resistance force only
b) Gravity force only
c) Air resistance and gravity force
d) Air resistance and electric force




19- If there is no resistance on Earth and we drop an iron cube and wooden cube at the same time from the same height, they will ....

a) Reach the floor at the same moment.
b) Reach the floor at different time.
c) Be affected by magnetic force during falling.
d) Move upward against gravity force.

20- Which of the following objects will take longer time to reach the ground if they are dropped from 5 meters height at the same time?

a) Iron balls.
b) A feather
c) A plastic ball
d) A hammer

21- .... is the center of the solar system.

a) The Earth
b) The sun
c) The moon and Earth
d) The sun and Earth





Q2 Put true or false.

1- We must conserve fresh water because it is limited on Earth.
2- Upstream is the place where a river starts
3- Building factories is from human strategies to control and conserve fresh water.
4- You must decrease the time of taking your shower to conserve water.
5- You can conserve water by leaving the tap open during brushing your teeth.
6- Adding some mud to clear water can pollute it.
7- Objects are pushed away of each other due to gravity.
8- Planets in the solar system revolve in fixed orbits due to the gravity between the sun and planets.
9- The gravitational force of Earth to a person in a flying plane is smaller than it when the same person stands on the ground.
10- Gravity affects only the moving objects but does not affect the objects at rest.
11- The force of magnet is always attraction force.
12- Gravity is similar to magnetism because both of them has only pulling force.
13- Gravity of Earth does not change the direction of a body that is thrown up into the air.
14- Skydiving sport depends on gravity force and air resistance force.
15- Magnetism is the force that attracts some metal.



16- Earth pulls living organisms only towards its center.
17- Air resistance is a factor that speeds up the falling objects toward the Earth.
18- There is no air in space, so air resistance slows down the movement of objects through space.
19- Air resistance is a type of pulling force.
20- The orbit of each planet has an ellipse shape.

Q3: write the scientific term.

1- A building established across a river which can hold water behind it.
2- The action of control reaching of humans to the natural resources or using them
3- It is an area of land where all water flows to a common location usually an ocean, a sea or other large water body.
4- A force that pulls objects down toward the Earth's surface
5- A celestial body that orbits the Earth
6- A phenomenon takes place in oceans and seas due to gravity of moon.
7- The effect that pull or push an object to make if move
8- The force that is found between two magnets or between the magnet and an object.
9- The force that slows down the movement of objects through air
10- The tool that is used by skydiver to slow his drop.
11- The force of gravity is constant and acts on all objects in the same way.




Q4: Complete the following.

1- Some human activities may cause water .... that leads to drought or flooding.

2- When the rate of rain fall decreases, the level of water in the river .... causing ....

3- To conserve water, we can .... time of washing our hands.

4- Clothes can be made from .... products or .... products

5- Objects move from high places toward the ground due to the effect of ....

6- The moon moves around the .... due to gravity.

7- The gravity of the moon affects the phenomenon of ocean ....

8- If the mass of the moon increases than its real mass, its gravitational attraction will ....

9- Force may push or .... the object to make it move.

10- Anybody that has a mass must have ....

11- The force that is needed to move a small bike is .... than that needed to move a truck

12- Air resistance is a type of .... force

13- A person can control the speed of his bike by using .... to slow down its movement

14- The scientist Nicolaus Copernicus stated that the .... revolves around the ....

15- In the solar system all planets revolve in .... paths called ....

Q5 Give reason for the following.

1- We should turn of water during washing dishes.
2- The gravity between two objects is affected by the distance between them.
3- Gravity of Earth is greater than the gravity of moon.
4- When you press the bicycle brake, its speed will stop moving after few seconds.
5- A pencil takes a longer time to reach Earth's surface than a large rock if they are thrown from the same height.
6- Planets revolve around the sun in fixed orbits.

Q6 What happens if.

1- You mix clear water with small amount of mud.
2- The speed of skydiver if he opens his parachute during landing.
3- The gravity pulling force between two bodies when their masses decreases.
4- A metal ball and a feather are fallen down from a tower.
5- Gravity of the sun is absent (according to planets)

Q1: Choose the correct answer.

1- The area of land where all the water flows to a common location as ocean is called ....
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b) Repulsion only

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b) Wind

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a) The Earth
b) The sun
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d) The sun and Earth

Q2 Put true or false.

1- We must conserve fresh water because it is limited on Earth. T
2- Upstream is the place where a river starts T
3- Building factories is from human strategies to control and conserve fresh water. F
4- You must decrease the time of taking your shower to conserve water. T
5- You can conserve water by leaving the tap open during brushing your teeth. F
6- Adding some mud to clear water can pollute it. T
7- Objects are pushed away of each other due to gravity. F
8- Planets in the solar system revolve in fixed orbits due to the gravity between the sun and planets. T
9- The gravitational force of Earth to a person in a flying plane is smaller than it when the same person stands on the ground. T
10- Gravity affects only the moving objects but does not affect the objects at rest. F
11- The force of magnet is always attraction force. F
12- Gravity is similar to magnetism because both of them has only pulling force. F
13- Gravity of Earth does not change the direction of a body that is thrown up into the air. F
14- Skydiving sport depends on gravity force and air resistance force. T

15- Magnetism is the force that attracts some metal. T
16- Earth pulls living organisms only towards its center. F
17- Air resistance is a factor that speeds up the falling objects toward the Earth. F
18- There is no air in space, so air resistance slows down the movement of objects through space. F
19- Air resistance is a type of pulling force. F
20- The orbit of each planet has an ellipse shape. T

Q3: write the scientific term.

1- A building established across a river which can hold water behind it. Dam
2- The action of control reaching of humans to the natural resources or using them preservation
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4- A force that pulls objects down toward the Earth's surface Gravity
5- A celestial body that orbits the Earth Moon
6- A phenomenon takes place in oceans and seas due to gravity of moon. Ocean tides
7- The effect that pull or push an object to make if move Force
8- The force that is found between two magnets or between the magnet and an object. Magnetism




9- The force that slows down the movement of objects through air Air resistance

10- The tool that is used by skydiver to slow his drop. Parachute

11- The force of gravity is constant and acts on all objects in the same way. Law of motion

Q4: Complete the following.

1- Some human activities may cause water ......imbalance................ that leads to drought or flooding.

2- When the rate of rain fall decreases, the level of water in the river ....decreases................. causing ......drought..........

3- To conserve water, we can ....decrease............. time of washing our hands.

4- Clothes can be made from ...animal......... products or ...plant........ products

5- Objects move from high places toward the ground due to the effect of ......gravity...................

6- The moon moves around the ......Earth........... due to gravity.

7- The gravity of the moon affects the phenomenon of ocean ...tides.........

8- If the mass of the moon increases than its real mass, its gravitational attraction will ....increase............

9- Force may push or .....pull............. the object to make it move.

10- Anybody that has a mass must have ....gravity................
11- The force that is needed to move a small bike is ....less............ than that needed to move a truck
12- Air resistance is a type of ....friction.............. force
13- A person can control the speed of his bike by using ......brakes........... to slow down its movement
14- The scientist Nicolaus Copernicus stated that the ....Earth............ revolves around the .....Sun....................
15- In the solar system all planets revolve in ...Oval/ellipse/Fixed......... paths called ...Orbits..........

Q5 Give reason for the following.

1- We should turn of water during washing dishes.
To conserve fresh water because fresh water is limited
2- The gravity between two objects is affected by the distance between them.
Because when distance between them decreases, the gravity increases and vice versa
3- Gravity of Earth is greater than the gravity of moon.
Because the mass of Earth is greater than the mass of the moon
4- When you press the bicycle brake, its speed will stop moving after few seconds.
Because the brake produces friction force that slows the movement until it stops
5- A pencil takes a longer time to reach Earth's surface than a large rock if they are thrown from the same height.




Because the pencil has more air resistance than the large rock so it takes longer time to reach the Earth's surface

6- Planets revolve around the sun in fixed orbits.
Because of the gravitational force between the sun and the planets

Q6 What happens if.

1- You mix clear water with small amount of mud.
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2- The speed of skydiver if he opens his parachute during landing.
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3- The gravity pulling force between two bodies when their masses decreases.
The gravity will decrease.

4- A metal ball and a feather are fallen down from a tower.
The metal ball will reach the ground first

5- Gravity of the sun is absent (according to planets)
Planets will leave their orbits and float off into space



